

# ULB/Solvay Workshop on “Progress on gravitational physics: 45 years of Belgian-Chilean collaboration”

Brussels, April 11 - 14, 2023

## TUESDAY 11 APRIL

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08:15 - 08:45	Registration
08:45 - 09:00	Welcome address
09:00 - 10:00	Jorge Zanelli - <i>Unconventional unification</i>
<b>10:00 - 10:30</b>	<b>COFFEE BREAK</b>
10:30 - 11:30	Gaston Giribet - <i>The 2D quantum gravity partition function</i>
11:30 - 12:30	Hernán Gonzalez - <i>A holographic model for soft gluon interactions</i>
<b>12:30 - 14:00</b>	<b>LUNCH BREAK</b>
14:00 - 15:00	Miguel Pino - <i>1/c deformations of AdS<sub>3</sub> boundary conditions</i>
15:00 - 16:00	Lorenzo Küchler - <i>Waveforms from compact binaries: the gravitational self-force approach</i>
<b>16:00 - 16:30</b>	<b>COFFEE BREAK</b>
16:30 - 17:30	Patricio Salgado-Rebolledo - <i>Non-relativistic 3D gravity and higher-spin fields in the fractional quantum Hall effect</i>

## WEDNESDAY 12 APRIL

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09:00 - 10:00	Max Bañados - <i>A new dynamics for Weyl connections, and a new Weyl invariant gravity</i>
<b>10:00 - 10:30</b>	<b>COFFEE BREAK</b>
10:30 - 11:30	Jose Edelstein - <i>Beyond General Relativity: causality, cosmology and astrophysics</i>
11:30 - 12:30	Alfredo Perez - <i>Carrollian/Fractonic elementary particles</i>
12:30 - 12:40	Group Photo
<b>12:40 - 14:00</b>	<b>LUNCH BREAK</b>
14:00 - 15:00	Francisco Rojas - <i>Strings on the celestial sphere</i>
15:00 - 16:00	Adrien Druart - <i>Spinning test bodies around Kerr black holes</i>
16:00 - 16:30	<b>COFFEE BREAK</b>
16:30 - 17:30	Javier Matulich - <i>Superrotations at spatial infinity</i>

## THURSDAY 13 APRIL

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- 09:00 - 10:00 Ricardo Troncoso - BMS (Carollian) field theories in 2D of electric and magnetic type from finite current-current deformations
- 10:00 - 10:30 COFFEE BREAK**
- 10:30 - 11:30 Andres Gomberoff - *The Implications of a Positive Cosmological Constant on Electromagnetic Theory*
- 11:30 - 12:30 Laura Donnay - *Constraints for flat space holography from asymptotic symmetries*
- 12:30 - 14:00 LUNCH BREAK**
- 14:00 - 15:00 Olivera Misković - *Infinite-dimensional symmetries of the gauge theories in the light front*
- 15:00 - 16:00 David Tempo - *Nonlinear automorphism of the conformal algebra in 2D and continuous  $\sqrt{TT}$  deformations*
- 16:00 - 16:30 COFFEE BREAK**
- 16:30 - 17:30 Alejandro Vilar Lopez - *Entwinement: a tool for bulk reconstruction in AdS3/CFT2*
- 19 :30 BANQUET (Les Petits Oignons, 25 rue de la Régence, 1000 Bruxelles)**

## FRIDAY 14 APRIL

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- 09:00 - 10:00 Fabrizio Canfora - *Analytic hadronic condensates at finite Baryon density and their electromagnetic fields*
- 10:00 - 10:30 COFFEE BREAK**
- 10:30 - 11:30 Rodrigo Olea - *Conformal Renormalization and gravitational instantons in anti-de Sitter gravity*
- 11:30 - 12:30 Alberto Faraggi - *Interpolating Boundary Conditions on AdS2 and Supersymmetric Wilson Loops*
- 12:30 - 13:30 LUNCH BREAK**
- 13:30 - 14:30 Oscar Fuentealba - *The BMS group in higher spacetime dimensions*
- 14:30 - 15:30 Cédric Troessaert - *BMS4 and logarithmic supertranslations*
- 15:30 - 16:00 **COFFEE BREAK**
- 16:00 - 17:00 Raphaela Wutte - *Hyperbolic mass and gluings of initial data*